

20496-248

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--1. (Four Times Amended) A process for the production of a buckling resistant stove-finished structural component from a cold strip which comprises ageing-sensitive steel with a high bake-hardening potential, comprises the steps of:

- converting the cold strip by temper rolling to a yield point elongation-free state in which the condition $R_{eh} - R_{el} < 2 \text{ N/mm}^2$ is met,
- storing the cold strip at storage temperature below room temperature for a storage period whose length is at most equal to the length of the period at whose end the value of critical ageing is reached which results in dependence on the particular storage temperature,
- cold working the cold strip to give a structural component, and
- stove-finishing the structural component.

3. (Thrice Amended) A process for the production of a buckling-resistant stove-finished structural component from a cold strip which comprises ageing-sensitive steel with a high bake-hardening potential, comprises the steps of:

- storing the cold strip undressed for a storage period at room temperature,
- converting the cold strip by temper rolling to a state in which the condition $R_{eh} - R_{el} < 2 \text{ N/mm}^2$ is met,
- cold working the temper rolled cold strip to give a structural component, and
- stove-finishing the structural component.--